

Contributors to This Issue

RICHARD R. ANDERSON, B.S.M.E., 1949, Northwestern University; M.S.E.E., 1960, Stevens Institute of Technology; Bell Telephone Laboratories, 1949—. Mr. Anderson first engaged in research on electronic switching systems for telephone central offices. In 1956 he joined the data transmission exploratory development department and made several prototype magnetic-tape transports for storing digital data. He has conducted theoretical studies of data transmission systems by computer simulation. Member, AAAS, Sigma Xi and Tau Beta Pi.

A. DESCLOUX, Math. Dipl., 1948, École Polytechnique Fédérale (Swiss Federal Institute of Technology); Ph.D., Mathematical Statistics, University of North Carolina, 1961. After spending 1955–56 on the staff of the University of Washington where he taught mathematics and statistics, Mr. Descloux joined Bell Telephone Laboratories. He has been concerned chiefly with the application of probability theory to traffic problems. Member, Institute of Mathematical Statistics, American Mathematical Society, and Society for Industrial and Applied Mathematics.

RONALD L. GRAHAM, B.S., 1958, University of Alaska; M.A., Ph.D., 1962, University of California (Berkeley); Bell Telephone Laboratories, 1962—. Mr. Graham has been engaged in research in a variety of combinatorial problems arising in coding theory, crystallography, multiprocessing, and fluctuation theory. Member, American Mathematical Society, Mathematical Association of America, Sigma Xi.

T. G. GRAU, B.A., 1960, Ohio Wesleyan University; M.S., 1962, Ohio State University; Bell Telephone Laboratories, 1960—. He is associated with the wire spring relay group of the Switching Apparatus Department at the Columbus Laboratory. Mr. Grau is currently engaged in the study of the magnetic characteristics of wire spring relays.

WILLIAM H. C. HIGGINS, B.S.E.E., 1929, E.E., 1934, Purdue University; Bell Telephone Laboratories, 1934—. From 1929 to 1934 he was a member of the Development and Research Department of A. T. & T. where he was engaged in systems engineering and field trials of carrier telephone and transcontinental program transmission systems. With the

transfer of that organization to BTL he became associated with development of radio telephone and telegraph systems for point-to-point, ship-to-shore, and ground-to-air applications, and with the development of radio altimeters. He was associated with the development of Army and Navy gun fire control radars, the NIKE guided missile system, Distant Early Warning Line, aircraft bombing and navigation systems, underwater sound detection systems, command guidance system for the TITAN ICBM, and data processing for NIKE ZEUS. Since 1961 he has been Executive Director, Electronic Switching Division and has responsibility for development work on electronic central offices, electronic PBX and military electronic switching systems. Fellow IEEE, Tau Beta Pi, Eta Kappa Nu, Sigma Xi (associate), American Ordnance Association, Armed Forces Communications Electronics Association, Association of the U. S. Army.

D. C. HOGG, B.Sc., 1949, University of Western Ontario; M.Sc., 1950, and Ph.D., McGill University; Bell Telephone Laboratories, 1953—. His work has included studies of artificial dielectrics for microwaves, diffraction of microwaves, and over-the-horizon and millimeter wave propagation. He has been concerned with evaluation of sky noise, analysis of performance characteristics of microwave antennas, and propagation of optical waves. Fellow, IEEE; member, Commission 2, U.R.S.I., Sigma Xi, and AAAS.

J. SALZ, B.S.E.E., 1955, M.S.E., 1956, Ph.D., 1961, University of Florida; The Martin Company, 1958–1960; Bell Telephone Laboratories, 1961—. He first worked on the remote line concentrators for the electronic switching system. He has since engaged in theoretical studies of data transmission systems. Member, IEEE; associate member, Sigma Xi.

MORTON I. SCHWARTZ, B.E.E., 1956, College of the City of New York; M.E.E., 1959, Eng.Sc.D., 1964, New York University; International Telephone and Telegraph Laboratories, 1956–1961; Bell Telephone Laboratories 1961—. Mr. Schwartz has been concerned with the study of digital FM and the analysis and design of radar systems. He is presently engaged in research in communication theory. Member, Eta Kappa Nu, IEEE and Sigma Xi.

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AARON D. WYNER, B.S., 1960, Queens College; B.S.E.E., 1960, M.S., 1961, Ph.D., 1963, Columbia University; Bell Telephone Laboratories, 1963—. He has been engaged in research in various aspects of information theory. He is also Adjunct Assistant Professor of Electrical Engineering at Columbia University. Member, IEEE, Tau Beta Pi, Eta Kappa Nu, Sigma Xi.

